

Reamer Bolts / Hexagon Socket Head Cap Reamer Bolts

Configurable Length

Reamer Bolts

RoHS10

RMB SRMB
Stainless Steel

RMBR SRMBR
Stainless Steel

Type	Material	Surface Treatment
RMB / RMBR	1045 Carbon Steel or Equivalent	Black Oxide
SRMB / SRMBR	302 HQ Stainless Steel or Equivalent	—

ⓘ The head is not knurled.
ⓘ For Configurable Length Type, the outer hex head (B) and the hex socket (B1) are not accurately aligned.

L Dimension Selectable

Part Number		L		M (Coarse)	ℓ	B	B ₁	(C)	A	H	t _{max}	d _{min}	a	
Type	Dg6													
RMB D5-16	5	-0.004	23 26 29	M5	6	10	3	11.5	8.5	3.5	2.4	9.0	0.5	
	6	-0.012	23 26 29 32 35	M6	8									
SRMB D5-10	8	-0.005	32 35 36 38	M8	10	13	5	15.0	13	5.0	3.75	10.4		
	10	-0.014	36 38 39 42	M10	12	17	—	19.6	—	6.5	—	12.9		
RMBR D5-8	12	-0.006	39 42 45 48 52 55	M12	16	19	—	21.9	—	8.0	—	15.4		1.0
	16	-0.017	52 55 58	M16	20	22	—	25.4	—	10.0	—	19.4		

- ⓘ SRMB not available for D12 and D16. ⓘ RMBR and SRMBR not available for D10, D12 and D16.
- ⓘ L dimension of reamer bolt is specified with the assumption of use as below.

Part Number Example

Part Number: RMB10 - L: 39

Application Example

Hexagon Socket Head Reamer Bolts – Configurable Length

RoHS10

RMBF SRMBF D5-10
Project Part Under Head

RMBFR SRMBFR D5-8
No Project Part Under Head

Type	Material	Surface Treatment
RMBF / RMBFB	1045 Carbon Steel or Equivalent	Black Oxide
SRMBF / SRMBFB	302 HQ Stainless Steel or Equivalent	—

ⓘ The outer hexagon head (B) and the hexagon socket (B1) are not accurately aligned.

ⓘ The head is not knurled.

Configurable Length

Type	Dg6	L	F	1 mm Increment		Available Types												
				M (Coarse)	B	B ₁	(C)	A	H	t _{max}	t _{min}	d _{min}	a	RMBF / RMBFB	SRMBF / SRMBFB	RMBFR	SRMBFR	
RMBF SRMBF D5-10	5	-0.004	20-29	M5	10	3	11.5	8.5	3.5	2.7	2.4	9.0	0.5	•	•	•	•	
	6	-0.012	20-35															4
RMBFB SRMBFB D5-10	8	-0.005	20-38	M8	13	5	15.0	13	5	3.8	3.75	10.4		•	•	•	•	
	10	-0.014	20-42															6
RMBFR SRMBFR D5-8	12	-0.006	20-55	M12	19	8	21.9	—	8	5	—	15.4		1.0	•	—	—	—
	16	-0.017	20-58															

- ⓘ SRMBF / SRMBFB not available for D10, D12 and D16. ⓘ RMBFR and SRMBFR not available for D12 and D16.

Part Number Example

Part Number: RMBF5 - L: 28 - F: F10

Plastic Hexagon Socket Head Cap / Set Screws

Plastic Hexagon Socket Head Cap / Set Screws

RoHS10

Type				Material
Screws	Nuts	Washers	Set Screws	RENY (Glassfiber Reinforced Polyamide MXD)
RENB	RENN	RENW	—	RENY
PPSB	PPSN	PPSW	—	PPS (Polyphenylenesulfide)
PEKB	PEKN	PEKW	PEKSF	PEEK (Polyetheretherketone)

ⓘ The surface colors of plastic screws may change somewhat depending on production lot and other conditions.
ⓘ Sometimes black spots may be seen on the surface, which does not affect its performance.

Note: Gate mark remains.
** Usable as one end threaded posts in combination with Both Ends Tapped Plastic Hex Spacers on P.2412.

Plastic Hex Socket Head Cap Screws

Part Number	M - L	M x P	A	E	B	Quantity	Available Types		
							RENB	PPSB	PEKB
3 - 6	8	3 x 0.5	5.5	3	2.5	100	•	•	•
	10						•	•	•
	12						•	•	•
	15						•	•	•
	18						•	•	•
	20						•	•	•
4 - 6	8	4 x 0.7	7	4	3	100	•	•	•
	10						•	•	•
	12						•	•	•
	15						•	•	•
	18						•	•	•
	20						•	•	•
5 - 8	10	5 x 0.8	8.5	5	4	100	•	•	•
	12						•	•	•
	15						•	•	•
	20						•	•	•
	25						•	•	•
	30						•	•	•
6 - 10	12	6 x 1.0	10	6	5	100	•	•	•
	15						•	•	•
	20						•	•	•
	25						•	•	•
	30						•	•	•
	40						•	•	•
8 - 15	20	8 x 1.25	13	8	6	50	•	•	•
	25						•	•	•
	30						•	•	•
	40						•	•	•
	50						•	•	•
	60						•	•	•
10 - 15	20	10 x 1.5	16	10	8	50	•	•	•
	25						•	•	•
	30						•	•	•
	35						•	•	•
	40						•	•	•
	50						•	•	•
12 - 20	25	12 x 1.75	18	12	10	50	•	•	•
	30						•	•	•
	35						•	•	•
	40						•	•	•
	50						•	•	•
	60						•	•	•

- ⓘ Shown above are reference values and not guaranteed.
- ⓘ Recommended tightening torque is 50% of torsional breaking torque. Use a torque driver and torque wrench for tightening.
- ⓘ Mechanical characteristics change depending on the operating environment. Testing is recommended under the applicable conditions prior to usage.
- ⓘ Characteristic Value of Plastics P.2419.

Plastic Nuts

Part Number	M	B	(e)	T	Available Types		
					RENN	PPSN	PEKN
RENN PPSN PEKN	3	5.5	6.4	2.4	•	•	•
	4	7	8.1	3.2	•	•	•
	5	8	9.2	4	•	•	•
	6	10	11.5	5	•	•	•
	8	13	15	6.5	•	•	•
	10	17	19.6	8	•	•	•
12	19	21.9	10	•	•	•	

Plastic Washers

Part Number	No.	D	d	t	Available Types		
					RENW	PPSW	PEKW
RENW PPSW PEKW	3	7	3.2	0.5	•	•	•
	4	9	4.3	0.8	•	•	•
	5	10	5.3	1	•	•	•
	6	12.5	6.4	1.6	•	•	•
	8	17	8.4	1.6	•	•	•
	10	21	10.5	2.0	•	•	•
12	24	13	2.5	•	•	•	

Plastic Set Screws

Part Number	M-L	B	d ₁	C (Min.)	d (Max.)
PEKSF	3-15	1.5	2.2	2	2
	4-20	2	2.8	2.5	2.5
	5-20	2.5	3.6	3	3.5
	6-25	3	4.4	3.5	4
	8-30	4	6	5	5.5

Part Number Example

Part Number: PPSB3-10

- PPSN3
- PPSW3
- PEKSF4-20

PEEK (Polyetheretherketone)

PEEK is semicrystalline super engineered plastic with the highest performance. It has the highest chemical resistance among all engineered plastics. The only generally used chemical that can dissolve PEEK is concentrated sulfuric acid. PEEK also excels in heat resistance, abrasion resistance, flame resistance and hydrolysis resistance.

RENY (Glassfiber Reinforced Polyamide M x D6)

RENY is based on polyamide MXD6 and is also a crystalline engineered plastic reinforced with 50% glass fiber. It has the highest strength and elasticity among engineered plastics, and excels in both oil and heat resistance. Thus, it is used as an alternative to metal.

PPS (Polyphenylenesulfide)

PPS is a crystalline super engineered plastic. It has excellent heat resistance, and does not deteriorate in physical properties even when it is used for long durations in high temperature atmosphere. In addition, it excels in chemical resistance, mechanical characteristics, electrical properties and dimensional stability.